Health Care: External Trends

- Why focus on health care?
 - > U.S. spends ~\$1 trillion (14% of GDP) on health care
 - > \$140 B associated with measurement
 - U.S. health care companies are global leaders
 - Health care identified as a national priority
- High growth rates in markets and high R&D intensity
- Large cost drivers for increased efficiency
- Growing recognition of the important role of the physical sciences



Health Care: Strategic Need

- Research and commercial development outpacing improvements in the measurement infrastructure
- Diverse technology sectors relate to NIST competencies
 - Emerging clinical diagnostics
 - Point of care testing
 - Imaging
 - Therapy
 - Prostheses and implants
 - > Tissue engineering
 - Research infrastructure
 - Health care delivery and infrastructure
 - Bioinformatics



Health Care: NIST Contribution

- Measurements and standards for research, diagnosis and therapy
- Measurement methods and data for research tools
- Standards for interoperability and security of IT systems
- Impartial technical advice to industry groups and regulatory bodies



Health Care: Anticipated Impact

- Faster and better regulatory decisions
- Faster introduction of new technologies
- Improved confidence in research and clinical conclusions
- More efficient studies and diagnoses
- Better decisions throughout clinical practice
- Higher quality health care

